

CLAIMS:

What is claimed is:

1. A method of transforming an original Java Server Page (JSP) file into a pervasive computing (PvC) device specific JSP file, comprising:
 - 5 parsing the original JSP file for JSP tags;
 - masking the JSP tags;
 - converting non-masked tags in the original JSP file into PvC device specific format tags;
 - unmasking the JSP tags; and
 - 10 storing a transformed JSP file containing the PvC device specific format tags and the JSP tags.
2. The method of claim 1, wherein masking the JSP tags includes embedding the JSP tags into HyperText Mark-up Language (HTML) comment tags.
3. The method of claim 2, wherein unmasking the JSP tags includes removing HTML comment tag identifiers from the HTML comment tags in which the JSP tags are embedded.
4. The method of claim 1, wherein storing the transformed JSP file includes storing the transformed JSP file with a filename that is unique to the particular PvC device for which the JSP file is formatted.
5. The method of claim 4, wherein the filename has a unique extension for the PvC device for which the JSP file is formatted.
6. The method of claim 1, wherein parsing the original JSP file comprises:

determining if a tag is encountered;
if a tag is encountered, determining if the tag is an HTML tag; and
if the tag is not an HTML tag, identifying the tag as a JSP tag.

5 7. The method of claim 6, wherein parsing the original JSP file further comprises:

if a tag is not encountered, writing the JSP file content to a resultant file;
if the tag is a HTML tag, writing the HTML tag to the resultant file; and
if the tag is a JSP tag, writing the JSP tag to the HTML file embedded in an HTML comment tag.

10 8. An apparatus for transforming an original Java Server Page (JSP) file into a pervasive computing (PvC) device specific JSP file, comprising:

a processor; and

15 a storage device, wherein the processor parses the original JSP file stored on the storage device for JSP tags, masks the JSP tags, converts non-masked tags in the original JSP file into PvC device specific format tags, unmaskes the JSP tags, and stores a transformed JSP file containing the PvC device specific format tags and the JSP tags on the storage device.

9. The apparatus of claim 8, wherein the processor masks the JSP tags by embedding the JSP tags into HyperText Mark-up Language (HTML) comment tags.

20 10. The apparatus of claim 9, wherein the processor unmaskes the JSP tags by removing HTML comment tag identifiers from the HTML comment tags in which the JSP tags are embedded.

11. The apparatus of claim 8, wherein the processor stores the transformed JSP file with a filename that is unique to the particular PvC device for which the JSP file is formatted.

12. The apparatus of claim 11, wherein the filename has a unique extension for the PvC device for which the JSP file is formatted.

13. The apparatus of claim 8, wherein while the processor parses the JSP file the processor:

determines if a tag is encountered;

if a tag is encountered, determines if the tag is an HTML tag; and

if the tag is not an HTML tag, identifies the tag as a JSP tag.

14. The apparatus of claim 8, wherein while the processor parses the JSP file, the processor further:

writes the JSP file content to a resultant file, if a tag is not encountered;

writes the HTML tag to the resultant file, if the tag is a HTML tag; and

writes the JSP tag to the HTML file embedded in an HTML comment tag, if the tag is a JSP tag.

15. A computer program product in a computer readable medium for transforming an original Java Server Page (JSP) file into a pervasive computing (PvC) device specific JSP file, comprising:

first instructions for parsing the original JSP file for JSP tags;

second instructions for masking the JSP tags;

third instructions for converting non-masked tags in the original JSP file into PvC device specific format tags;

fourth instructions for unmasking the JSP tags; and

fifth instructions for storing a transformed JSP file containing the PvC device specific format tags and the JSP tags.

16. The computer program product of claim 15, wherein the second instructions include instructions for embedding the JSP tags into HyperText Mark-up Language (HTML) comment tags.

17. The computer program product of claim 16, wherein the fourth instructions include instructions for removing HTML comment tag identifiers from the HTML comment tags in which the JSP tags are embedded.

18. The computer program product of claim 15, wherein the fifth instructions include instructions for storing the transformed JSP file with a filename that is unique to the particular PvC device for which the JSP file is formatted.

19. The computer program product of claim 18, wherein the filename has a unique extension for the PvC device for which the JSP file is formatted.

20. The computer program product of claim 15, wherein the first instructions include instructions for:

- determining if a tag is encountered;
- if a tag is encountered, determining if the tag is an HTML tag; and
- if the tag is not an HTML tag, identifying the tag as a JSP tag.

21. The computer program product of claim 20, wherein the first instructions further include instructions for:

- writing the JSP file content to a resultant file, if a tag is not encountered;
- writing the HTML tag to the resultant file, if the tag is an HTML tag; and

writing the JSP tag to the HTML file embedded in an HTML comment tag, if the tag is a JSP tag.

22. A system for transforming an original Java Server Page (JSP) file into a pervasive computing (PvC) device specific JSP file, comprising:

means for parsing the original JSP file for JSP tags;

means for masking the JSP tags;

means for converting non-masked tags in the original JSP file into PvC device specific format tags;

means for unmasking the JSP tags; and

means for storing a transformed JSP file containing the PvC device specific format tags and the JSP tags.

23. The system of claim 22, wherein the means for masking embeds the JSP tags into HyperText Mark-up Language (HTML) comment tags.

24. The system of claim 23, wherein the means for unmasking removes HTML comment tag identifiers from the HTML comment tags in which the JSP tags are embedded.

25. The system of claim 22, wherein the means for storing stores the transformed JSP file with a filename that is unique to the particular PvC device for which the JSP file is formatted.

26. The system of claim 25, wherein the filename has a unique extension for the PvC device for which the JSP file is formatted.

